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(54) Title: **BIOLOGICAL MATERIAL AND METHODS AND SOLUTIONS FOR PRESERVATION THEREOF**

(57) **Abstract:** The invention provides a preservation solution for preserving biological material at low temperature comprising one or more polyphenols and a method for preservation of biological material, said method comprising adding the preservation solution to biological material, cooling the biological material and storing it at appropriate storing conditions. The method of the present invention may be used for hypothermic preservation or for cryopreservation, including freezing and lyophilization, and may be used with any biological material, including cells selected from RBC, WBC, MNC, UCB MNC and bacteria. In case of RBC the present invention also disclosed a method for its freezing such that upon thawing, the material has less than 2% free hemoglobin.

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